

Supplemental Application Form Air Pollution Control Equipment

Applicant Name:
(As indicated on *Permit Application Transmittal Form*)

DEP USE ONLY	
App. No.:	<input style="width: 90%;" type="text"/>
EPE No.:	<input style="width: 90%;" type="text"/>

Section I. Summary Sheet (Make additional copies, if necessary)

Unit Number (1)	Unit Description (2)	Control Equipment		Overall Control Efficiency % (5)	Pollutants Controlled (6)	*Basis (7)	Stack No. (8)
		No. (3)	Type (4)				

* Attach supporting documentation with this form, e.g., stack test data, manufacturer's guarantee, etc.

Section II: Specific Control Equipment

(Complete the appropriate subsection for each *distinct* piece of control equipment you utilize. You may reproduce the pages of the form as necessary.)

Adsorption Device

1a. Designated Reference Number of Adsorption Unit:

1b. Designated Reference Number of Unit which uses Adsorber:

2. Manufacturer:

3. Model Name & Number:

4. Construction Date: / /

5. Adsorbent:

☐ Activated Charcoal Type:

☐ Other (specify):

6. Number of Beds:

7. Dimensions of Bed

Bed No.1

Thickness in direction of gas flow(inches):

Cross-section area (sq. inches):

Bed No.2

Thickness in direction of gas flow(inches):

Cross-section area (sq. inches):

Bed No.3

Thickness in direction of gas flow(inches):

Cross-section area (sq. inches):

8. Inlet Gas Temperature: °F or °C

9. Design Pressure Drop Across Unit: inches H₂O

10. Type of Regeneration

☐ Replacement

☐ Steam

☐ Other (specify):

11. Method of Regeneration

☐ Alternate use of beds

☐ Source shut down

☐ Other (specify):

Describe procedures used to ensure that emissions from regeneration process are treated or minimized:

12. Maximum Operation Time Before Regeneration:

13. Is adsorber equipped with a break-through detector? ☐ Yes ☐ No

14. a) Control Efficiency(s) of Adsorber (%):

b) Collection Efficiency(s) of Adsorber (%):

15. Pollutant(s) Controlled:

[illegible]

Condenser

- 1a. Designated Reference Number of Condenser Unit:
- 1b. Designated Reference Number of Unit which uses Condenser:
2. Manufacturer:
3. Model Name & Number:
4. Construction Date: / /
5. Heat Exchange Area (sq. ft.):
6. Coolant Flow Rate: ☐ Water: gpm ☐ Air: scfm (at 68° F)
 ☐ Other (specify) : Type: Flow Rate:
7. Gas Flow Rate: scfm (at 68° F)
8. Coolant Temperature (°F): In: Out:
9. Gas Temperature (°F): In: Out:
10. a) Control Efficiency(s) of Condenser:
 b) Collection Efficiency(s) of Condenser (%):
11. Pollutant(s) Controlled:

Electrostatic Precipitator

- 1a. Designated Reference Number of Electrostatic Precipitator:
- 1b. Designated Reference Number of Unit which uses Electrostatic Precipitator:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Collecting Electrode Area (sq ft):
6. Gas Flow Rate (scfm):
7. Voltage Across the Precipitator Plates (kv):
8. Resistivity of Pollutants (ohms):
9. Number of Fields in the Precipitator:
10. Grain Loading (grains/scf @ 68° F): a) Inlet: b) Outlet:
11. a) Control Efficiency(s) of Electrostatic Precipitator (%):
 b) Collection Efficiency(s) of Electrostatic Precipitator (%):
12. Pollutant(s) Controlled:

Filter

- 1a. Designated Reference Number of Filter:
- 1b. Designated Reference Number of Unit which uses Filter:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Filtering Material:
6. Air to Cloth Ratio (sq ft):
7. Cleaning Method: ☐ Shaker ☐ Reverse Air ☐ Pulse Air
 ☐ Pulse Jet ☐ Other (specify):
8. Gas Cooling Method: ☐ Ductwork Length (ft): Diameter (inches):
 ☐ Heat Exchanger ☐ Bleed-in Air ☐ Water Spray ☐ Other (specify):
9. Gas Flow Rate (from source): scfm (at 68° F)
10. Cooling Gas Flow Rate
 Bleed-in Air: scfm (at 68° F) Water Spray: gpm
11. Inlet Gas Condition Temperature (°F): Dew Point (°F):
12. Grain Loading (grains/scf @ 68° F): a) Inlet: b) Outlet:
13. Design Pressure Drop Across Unit (inches H₂O):
14. a) Control Efficiency of Filter (%):
 b) Collection Efficiency of Filter (%):
15. Pollutant(s) Controlled:

Cyclone

- 1a. Designated Reference Number of Cyclone:
- 1b. Designated Reference Number of Unit which uses Cyclone:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Type of Cyclone: ☐ Single ☐ Multiple
6. Number of Cyclones in Multiple Cyclone:
7. Gas Flow Rate: scfm (at 68° F)
8. Grain Loading (grains/SCF @ 68° F): a) Inlet: b) Outlet:
9. Design Pressure Drop Across Unit (inches H₂O):
10. a) Control Efficiency of Cyclone (%):
 b) Collection Efficiency of Cyclone (%):
11. Pollutant(s) Controlled:

Scrubber

- 1a. Designated Reference Number of Scrubber:
- 1b. Designated Reference Number of Unit which uses Scrubber:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Type of Scrubber: ☐ Venturi ☐ Wet Fan
☐ Packed: Packing Material:
 Size: Packed Height (inches):
☐ Spray: Number of Nozzles:
 Nozzle No. 1 Pressure (psig):
 Nozzle No. 2 Pressure (psig):
 Nozzle No. 3 Pressure (psig):
 Nozzle No. 4 Pressure (psig):
☐ Other (specify): **(Attach description and sketch with dimensions)**
6. Design Pressure Drop Across the Scrubber (inches H₂O):
7. Type of Flow: ☐ Concurrent ☐ Countercurrent ☐ Crossflow
8. Scrubber Geometry
Length in direction of Gas Flow (ft): Cross Sectional Area (sq ft):
9. Chemical Composition of Scrubbing Liquid:
10. a. Scrubbing Liquid Flow Rate (gpm):
b. Fresh Liquid Make-Up Rate (gpm):
11. Scrubber Liquid: ☐ One Pass ☐ Recirculated
12. Gas Flow Rate: scfm (at 68° F)
13. Inlet Gas Temperature (°F):
14. a) Control Efficiency(s) of Scrubber (%):
b) Collection Efficiency(s) of Scrubber (%):
15. Pollutant(s) Controlled:

Mist Eliminator

- 1a. Designated Reference Number of Mist Eliminator:
- 1b. Designated Reference Number of Unit which uses Mist Eliminator:
2. Manufacturer:
3. Model Name & Number:
4. Construction Date: / /
5. Face Velocity (feet per second):
☐ Vertical Flow ☐ Horizontal Flow ☐ Diagonal
6. Design Pressure Drop Across Mist Eliminator (inches H₂O):
7. a) Control Efficiency of Mist Eliminator at:
 1 mm Hg: 5 mm Hg: 10 mm Hg:
 b) Collection Efficiency of Mist Eliminator (%):
8. Pollutant(s) Controlled:

Other Type of Control Equipment for Degreasing Equipment

- 1a. Designated Reference Number of Equipment:
- 1b. Designated Reference Number of Unit which uses Equipment:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Method of Controls
☐ Refrigerator Chiller ☐ Water Spray ☐ Other (specify):
6. a) Control Efficiency of Other Type of Control Equipment (%):
 b) Collection Efficiency of Other Type of Control Equipment (%):
7. Pollutant(s) Controlled:

Other Type of Control Equipment

- 1a. Designated reference number of other type of control equipment:
- 1b. Designated reference number of unit which uses other type of control equipment:
2. Manufacturer:
3. Model Name & Serial Number:
4. Construction Date: / /
5. Generic name of other equipment:
6. a) Control efficiency of other type of control equipment (%):
 b) Collection efficiency of other type of control equipment (%):
7. Pollutant(s) Controlled: